

10. Jasmine

Program Name: Jasmine.java

Input File: jasmine.dat

Jasmine loves to mess around with her friends' names by changing around the letters to make crazy sounding new names. One thing she tried recently, even writing a program for it, was to divide each name into three parts, then finding the longest part and putting that first in all caps, followed by the other two parts, the first lowercased and reversed, and the other part uppcased and alphabetized.

She decided to divide each full name length by 3, and use that value as the length of the first two parts, which means the last part could possibly be longer than first two, but that was OK with her.

For example, since "Abigail" has 7 letters, the first two parts - "Ab" and "ig" - will be 2 characters long, and "ail" will be the third part. Since "ail" is the longest part, which she puts it first in all caps, followed by "ba", the reversed and lowercased next part, and finally "GI", the alphabetized and uppcased final part, making a new crazy name of "AILbaGI".

For Carlos, all three parts are the same length, so she just keeps them in order, capitalizing the first part, doing the "reverse/lowercase" thing with the second part, and the "alphaOrder/uppcase" thing with the last part, producing "CAlrOS" as his new crazy name.

Input - Several names of friends, each on one line, as shown below.

Output - For each name, output the three parts, with single space separation, followed by " ==> ", and then the new crazy name according to the criteria specified above.

Sample data:

Abigail
Benjamin
Carlos

Sample Output:

Ab ig ail ==> AILbaGI
Be nj amin ==> AMINebJN
Ca rl os ==> CAlrOS